

L Number	Hits	Search Text	DB	Time stamp
1	7241	(438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:56
2	1303	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and barrier and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:56
3	595	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:56
4	167	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:03
5	69	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)) and (vacuum or pressure).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:58
6	3	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)) and (vacuum or pressure).clm.) and (pretreat\$4 or pre-treat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:59
9	3	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)).clm.) and (non-reactive or non-plasma)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:04
10	45	("3012861"   "3178392"   "3832202"   "3920865"   "4705725"   "4771328"   "5103285"   "5194333"   "5314845"   "5364800"   "5376595"   "5470801"   "5559367"   "5675187"   "5688724"   "5818071"   "5847461"   "5858879"   "5864172"   "5874367"   "5874745"   "5882489"   "5904154"   "5915203"   "5930655"   "5939763"   "5989998"   "6025263"   "6028015"   "6037248"   "6043145"   "6043167"   "6051477"   "6054379"   "6063702"   "6066574"   "6114259"   "6147012"   "6177302"   "6204192"   "6215087"   "6232658"   "6303047"   "6245666"   "6410419").PN.	USPAT	2003/05/27 10:10
7	58	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:51

14	12	5,851,367	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:52
-	3380	(metal and hydrogen and plasma) and 438/\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/10 15:06
-	811	((metal and hydrogen and plasma) and 438/\$) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:05
-	16	((metal and hydrogen and plasma) and 438/\$) and copper) and pre-treat\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:17
-	18	((metal and hydrogen and plasma) and 438/\$) and pre-treat\$) and helium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:17
-	44	("4173661"   "4480010"   "4844775"   "5017403"   "5127988"   "5202280"   "5232871"   "5296404"   "5308655"   "5312774"   "5314603"   "5352623"   "5451258"   "5576071"   "5593511").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:22
-	48	((metal and hydrogen and plasma) and 438/\$) and pre-treat\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 12:30
-	44	("4173661"   "4480010"   "4844775"   "5017403"   "5127988"   "5202280"   "5232871"   "5296404"   "5308655"   "5312774"   "5314603"   "5352623"   "5451258"   "5576071"   "5593511").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 12:16
-	25	(plasma adj anneal) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:44
-	38	("5142438"   "5362632"   "5405796"   "5409855"   "5479316"   "5508881"   "5576071"   "5685951"   "5696394"   "5741712"   "5754390"   "5773363"   "6010940"   "5142438"   "5362632"   "5405796"   "5409855"   "5479316"   "5508881"   "5576071"   "5685951"   "5696394"   "5741712"   "5754390"   "5773363"   "6010940").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:34
-	43416	adhesion and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:44
-	593	(adhesion and copper) and (barrier adj metal)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:45
-	473	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:46

-	3	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and (pre-treat\$).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:47
-	59	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and (heat).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:47
-	160	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and temperature.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:48
-	26	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and temperature.clm.) and (barrier adj metal).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:48
-	9	("5739579"   "5847463"   "5886410").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:10
-	13	("4789648"   "5447887"   "5693563"   "6136680"   "6146988").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:13
-	25	("4789648"   "5011782"   "5334554"   "5447887"   "5635425"   "5693563"   "5902122"   "5994200"   "6048764").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:15
-	38	5447887.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:21
-	0	6339258.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:35
-	30	("5447887"   "5470789"   "5506449"   "5614437"   "5665628"   "5668411"   "5679980"   "5686760"   "5696018"   "6110598").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:36
-	13	5668411.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:44
-	3	6136682.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:51
-	17	5899740.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:59
-	3	810221.ap.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 15:33

-	30	(pre-treatment or pretreatment) and (barrier adj metal adj layer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/02/20 15:35
-	144	438/586 and Barrier.clm.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:36
-	20	(438/586 and Barrier.clm.) and (hydrogen or argon or helium).clm.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:37
-	10	((438/586 and Barrier.clm.) and (hydrogen or argon or helium).clm.) and copper	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:37
-	8	((438/586 and Barrier.clm.) and (hydrogen or argon or helium).clm.) and copper.clm.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:44
-	1	438/586 and (hydrogen and helium and argon).clm.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:44
-	1758	hydrogen and argon and helium and barrier	USPAT	2002/12/10 15:14
-	192	(hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.	USPAT	2002/12/10 15:15
-	44	((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.	USPAT	2002/12/10 15:15
-	21	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper	USPAT	2002/12/10 15:15
-	13	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.	USPAT	2002/12/10 15:26
-	10	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and plasma	USPAT	2002/12/10 15:31
-	8	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and plasma) and "200"	USPAT	2002/12/10 15:45
-	9	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and plasma) and heat\$3	USPAT	2002/12/10 15:45
-	10	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and heat\$3	USPAT	2002/12/10 15:45
-	8	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and heat\$3.clm.	USPAT	2002/12/10 15:53
-	10	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and temperature.clm.	USPAT	2002/12/10 15:48

-	11	((((hydrogen and argon and helium and barrier).clm.) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and time	USPAT	2002/12/10 15:48
-	4	((((hydrogen and argon and helium and barrier).clm.) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and (seconds or minute or minutes).clm.	USPAT	2002/12/10 15:49
-	7	((((hydrogen and argon and helium and barrier).clm.) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and heat\$3.clm.) and (((hydrogen and argon and helium and barrier).clm.) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and temperature.clm.)	USPAT	2002/12/10 15:54
-	13	(US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6348407-\$ or US-5380567-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-6333248-\$).did.	USPAT	2002/12/11 12:48
-	0	((US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6348407-\$ or US-5380567-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-6333248-\$).did.) and (tape adj test)	USPAT	2002/12/11 12:48
-	91	barrier and copper and (tape adj test)	USPAT	2002/12/11 12:48
-	24	(barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.	USPAT	2002/12/11 12:49
-	0	((barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.) and tape.clm.	USPAT	2002/12/11 12:49
-	0	((barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.) and test.clm.	USPAT	2002/12/11 12:49
-	4	((barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.) and copper.clm.	USPAT	2002/12/11 12:49
-	940	438/648	USPAT	2002/12/13 07:56
-	307	438/648 and barrier.clm.	USPAT	2002/12/13 07:56
-	125	(438/648 and barrier.clm.) and copper.clm.	USPAT	2002/12/13 07:56
-	35	((438/648 and barrier.clm.) and copper.clm.) and (hydrogen or argon or helium or nitrogen).clm.	USPAT	2002/12/13 07:58
-	14	((438/648 and barrier.clm.) and copper.clm.) and (hydrogen or argon or helium or nitrogen).clm.) and (treatment or pretreatment or pre-treatment)	USPAT	2002/12/13 07:58
-	7	((438/648 and barrier.clm.) and copper.clm.) and (hydrogen or argon or helium or nitrogen).clm.) and (treatment or pretreatment or pre-treatment).clm.	USPAT	2002/12/13 08:01
-	345	438/785	USPAT	2002/12/13 08:03
-	26	438/785 and copper.clm.	USPAT	2002/12/13 08:03
-	11	(438/785 and copper.clm.) and (nitrogen or hydrogen or helium or argon).clm.	USPAT	2002/12/13 08:04
-	5	((438/785 and copper.clm.) and (nitrogen or hydrogen or helium or argon).clm.) and (treatment or pretreatment or pre-treatment)	USPAT	2002/12/13 08:04
-	2	((438/785 and copper.clm.) and (nitrogen or hydrogen or helium or argon).clm.) and (treatment or pretreatment or pre-treatment).clm.	USPAT	2002/12/13 08:04

-	16	(US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.	USPAT	2002/12/13 08:06
-	16	((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier	USPAT	2002/12/13 08:06
-	15	((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.	USPAT	2002/12/13 08:07
-	7	((((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.) and (treatment or pretreatment or pre-treatment)	USPAT	2002/12/13 08:07
-	3	((((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.) and (treatment or pretreatment or pre-treatment).clm.	USPAT	2002/12/13 08:07
-	3	((((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.) and (treatment or pretreatment or pre-treatment).clm.) and (hydrogen or nitrogen or helium or argon).clm.	USPAT	2002/12/13 08:08
-	16	(US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.	USPAT	2003/05/19 12:41

-	16	((US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 12:41
-	16	((US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 12:42
-	14	((US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.) and copper) and (gas or vacuum).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 12:42
-	7	("5576052"   "5851367"   "5891513"   "5939788"   "6077780"   "6136707"   "6261954").PN.	USPAT	2003/05/19 13:33
-	9	5851367.URPN.	USPAT	2003/05/19 13:44
-	7	6271136.URPN.	USPAT	2003/05/19 13:51
-	0	6534404.URPN.	USPAT	2003/05/19 13:58
-	0	6436826.URPN.	USPAT	2003/05/19 13:58
-	0	6475913.URPN.	USPAT	2003/05/19 13:58
-	6	("6451682" "6306756" "6495461").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:31
-	0	438/586.ccls. and (gas adj treatment)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	152	438/\$5.ccls. and (gas adj treatment)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	44	(438/\$5.ccls. and (gas adj treatment)) and barrier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	18	((438/\$5.ccls. and (gas adj treatment)) and barrier) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	14	(438/\$5.ccls. and (gas adj treatment)) and barrier.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:33
-	12	((438/\$5.ccls. and (gas adj treatment)) and barrier.clm.) and gas.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:34

-	1	"6534404"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 10:54
-	1	"6567541"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 10:58
-	8	"6204179"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:07
-	1	"6548395"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:07
-	13	5,989,999	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:11
-	2	"6303495"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:11
-	1	"6562219"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:11